

## **MacDill AFB, FL**

### **UTILITY SYSTEM DESCRIPTIONS**

**System Descriptions:** The following information is only an estimate of the size, scope, and general description of the electrical, natural gas, potable water, and sanitary wastewater utility systems at MacDill AFB and is subject to change. MacDill AFB occupies approximately 5,630 acres of real estate in the southern portion of Tampa, Florida. This includes 624 buildings, and 623 family housing units. MacDill AFB does not generate its own electricity or natural gas and does not have water or wastewater treatment plants.

**Electrical:** The electrical transmission system consists of a 13,200 volt distribution system, one substation with two transformers of 22.0 MVA and 28 MVA capacities respectively. Approximate annual consumption: 438,000,000 KWh. Primary overhead distribution: approximately 60 miles. Primary underground distribution: approximately 25 miles. Residential Usage: 9.5% Commercial/Industrial Usage: 90.5%.

**Natural Gas:** The natural gas distribution system consists of approximately 24 miles of gas mains ranging from 8" main to 3/4" service laterals. It includes steel piping, some with polypropylene pipe inserted, and newly installed polypropylene pipe. The system has 40 gas meters and 684 regulators.

**Potable Water:** Water is supplied from the City of Tampa. There are approximately 70 miles of water distribution lines ranging from 20" main down to 3/4" service laterals consisting of about 92% cast iron, 6% plastic - both PVC and polyethylene, and 2% asbestos-cement pipe. There are two elevated water storage tanks (1 @ 250,000 gallons, 1 @ 500,000 gallons), four pressure booster pumps, 310 hydrants, and 59 water meters.

**Sanitary Wastewater:** The sanitary wastewater system consists of a treatment plant and collection piping. The sewage treatment plant has a capacity of 2.0 million gallons per day and the effluent is sent to golf course for irrigation, and several spray fields for evaporation. The sanitary wastewater collection system consists of approximately 391,000 linear feet of primarily VC and PVC sewer mains ranging in size from 4 to 12 inches, including 62 lift stations.